

CLAIMS:

Please cancel claims 1- 14.

Claims 1- 14 (canceled)

15. (previously amended) A train whistle adapted for operation on a moving locomotive to produce a sound field directed toward a predetermined geographic zone, the train whistle comprising:

a plurality of high power amplifiers;

a plurality of loudspeakers connected to said plurality of amplifiers and arranged in a predetermined array on said locomotive; and

a digital signal processor configured to supply a plurality of signals for driving the plurality of amplifiers and loudspeakers and to control frequencies, amplitudes, and phases of the signals such that the loudspeakers produce a sound field directed toward a pre-determined geographic zone, and whereby the sound field dynamically changes as the locomotive advances toward the geographic zone.

16. (previously added) A train whistle in accordance with claim 15 wherein the predetermined geographic zone comprises a roadway near a grade crossing.